



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL

FORM OGC-3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

☒ APPLICATION TO DRILL ☐ DEEPEN ☐ PLUG BACK ☒ FOR AN OIL WELL ☒ OR GAS WELL

NAME OF COMPANY OR OPERATOR
PENSE BROTHERS DRILLING CO., INC.
ADDRESS
Box 551, 800 NEWBERRY STREET
CITY
FREDERICKTOWN
DATE
SUPPLEMENTAL TO 9/25/95
STATE
MD
ZIP CODE
63645
DEVELOPMENTAL PERMIT APP.

DESCRIPTION OF WELL AND LEASE

NAME OF LEASE
MARKHAM
WELL NUMBER
1-G
ELEVATION (GROUND)
940' (TOPD)

WELL LOCATION
SE/4 SE/4
SECTION
1075+
TOWNSHIP
43N
RANGE
33W
COUNTY
CASS
FEET FROM (S) SECTION LINE
390+
FEET FROM (E) SECTION LINE

NEAREST DISTANCE FROM PROPOSED LOCATION TO PROPERTY ON LEASE LINE
235 FEET

DISTANCE FROM PROPOSED LOCATION TO NEAREST DRILLING, COMPLETED OR APPLIED - FOR WELL ON THE SAME LEASE
6 FEET

PROPOSED DEPTH
500'
DRILLING CONTRACTOR, NAME AND ADDRESS
PENSE BRDS. DRLG. CO., INC.
ROTARY OR CABLE TOOLS
ROTARY (AIR)
APPROX DATE WORK WILL START
ON PERMIT
NUMBER OF ACRES IN LEASE
60
NUMBER OF WELLS ON LEASE, INCLUDING THIS WELL, COMPLETED IN OR DRILLING TO THIS RESERVOIR
3
NUMBER OF ABANDONED WELLS ON LEASE

IF LEASE PURCHASED WITH ONE OR MORE WELLS DRILLED, FROM WHOM PURCHASED?
N/A
NAME
N/A
ADDRESS
N/A
NO OF WELLS PRODUCING
2
INJECTION
0
INACTIVE
0
ABANDONED
3

STATUS OF BOND
☐ SINGLE WELL
AMOUNT \$
☒ BLANKET BOND
AMOUNT \$**20000.00**
☒ ON FILE
ATTACHED

REMARKS (IF THIS IS AN APPLICATION TO DEEPEN OR PLUG BACK, BRIEFLY DESCRIBE WORK TO BE DONE, GIVING PRESENT PRODUCING ZONE AND EXPECTED NEW PRODUCING ZONE; USE BACK OF FORM IF NEEDED.)
N/A

OCT 03 1995

PROPOSED CASING PROGRAM

| AMOUNT | SIZE | WT/FT | CEM. |
|------------|--------|----------|---------|
| 50' | 7" | 19 LB. | TO SURF |
| TD TO SURF | 4 1/2" | 10.5 LB. | TO SURF |

APPROVED CASING - TO BE FILLED IN BY STATE GEOLOGIST

| AMOUNT | SIZE | WT/FT | CEM. |
|--------|------|-------|------|
| " | " | " | " |
| " | " | " | " |

I, the undersigned, state that I am the **ASST. V. P.** of the **PENSE BRDS. DRLG. CO., INC.** (company), and that I am authorized by said company to make this report, and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct, and complete to the best of my knowledge.

SIGNATURE
B.E. Blancett
BY: **B.E. BLANCETT**
PENSE BRDS. DRLG. CO., INC.
DATE
9/30/95

PERMIT NUMBER
20597
APPROVAL DATE
9/26/95
APPROVED BY
Jane Holley Wilson
☒ DRILLER'S LOG REQUIRED
☒ CORE ANALYSIS REQUIRED IF RUN
☐ SAMPLES REQUIRED
☒ SAMPLES NOT REQUIRED
☐ WATER SAMPLES REQUIRED AT

NOTE ▶ THIS PERMIT NOT TRANSFERABLE TO ANY OTHER PERSON OR TO ANY OTHER LOCATION
APPROVAL OF THIS PERMIT BY THE OIL AND GAS COUNCIL DOES NOT CONSTITUTE ENDORSEMENT OF THE GEOLOGIC MERITS OF THE PROPOSED WELL NOR ENDORSEMENT OF THE QUALIFICATIONS OF THE PERMITTEE.

I, _____ of the _____ Company confirm that an approved drilling permit has been obtained by the owner of this well. Council approval of this permit will be shown on this form by presence of a permit number and signature of authorized council representative.

DRILLER'S SIGNATURE
DATE



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DEC 03 1996 Form OGC-5

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ☐ OIL ☒ GAS ☐ DRY

OWNER **PENSE BROS. DRLG. CO., INC.** ADDRESS **Box 551, FREDERICKTOWN, MO 63645**
LEASE NAME **MARKHAM** WELL NUMBER **# 1-G**

LOCATION **SE/4 SE/4** SEC. TWP. AND RANGE OR BLOCK AND SURVEY **5-43N-33W**

COUNTY **CASS** PERMIT NUMBER (OGC-3 OR OGC-34) **20597**

DATE SPUNDED **9-27-95** DATE TOTAL DEPTH REACHED **9-29-95** DATE COMPLETED READY TO PRODUCE OR INJECT **10-17-96** ELEVATION (DF, RKR, RT, OR GR.) FEET **940 GY. (TOP)** ELEVATION OF CASING HD FLANGE **941.5'** FEET

TOTAL DEPTH **490'** PLUG BACK TOTAL DEPTH **N/A**

PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION **405' - 415'** ROTARY TOOLS USED (INTERVAL) **SURFACE TO T.D.** CABLE TOOLS USED (INTERVAL) **N/A**
DRILLING FLUID USED **AIR & WATER**

WAS THIS WELL DIRECTIONALLY DRILLED? **NO** WAS DIRECTIONAL SURVEY MADE? **NO** WAS COPY OF DIRECTIONAL SURVEY FILED? **NO** DATE FILED **N/A**

TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) **GAMMA RAY - NEUTRON ONLY MECHANICAL LOG RAN** DATE FILED **11/30/96**

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

| PURPOSE | SIZE HOLE DRILLED | SIZE CASING SET | WEIGHT (LB. FT) | DEPTH SET | SACKS CEMENT | AMOUNT PULLED |
|------------------------|-------------------|-----------------|------------------|----------------|--------------|---------------|
| SURFACE CSG. | 9 5/8" | 7" | 19.5 LBS | 54' 04" | 7 | NIL |
| PRODUCTION CSG. | 6 1/4" | 4 1/2" | 10.5 LBS. | 463' | 66 | NIL |

TUBING RECORD

LINER RECORD

| SIZE | DEPTH SET | PACKER SET AT | SIZE | TOP | BOTTOM | SACKS CEMENT | SCREEN |
|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------|-----------------|
| N/A IN. | N/A FEET | N/A FEET | N/A INCH | N/A FEET | N/A FEET | N/A | N/A FEET |

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

| NUMBER PER FEET | SIZE AND TYPE | DEPTH INTERVAL | AMOUNT AND KIND OF MATERIAL USED | DEPTH INTERVAL |
|-----------------|------------------------------------|--------------------|--|--------------------|
| 2 | 3-1/8" DML-HSC 21 SHOTS | 405' - 415' | (PERFORATED & SWABBED ONLY) ACID & SAND FRAC PENDING COMPLETION OF GATHERING & SALES FACILITIES | 405' - 415' |

INITIAL PRODUCTION

| | | | | | | |
|--|-----------------|--|---|--------------------------|----------------------------|---------------|
| DATE OF FIRST PRODUCTION OR INJECTION 10-17-96 | | | PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING — IF PUMPING, SHOW SIZE AND TYPE OF PUMP) FLOWING GAS THRU UNTREATED PERFS. MEASURED 158 MCFD WHILE DRILLING | | | |
| DATE OF TEST 10-17-96 | HOURS TESTED | CHOKE SIZE | OIL PRODUCED DURING TEST | GAS PRODUCED DURING TEST | WATER PRODUCED DURING TEST | OIL GRAVITY |
| SWABBED - FLOWING GAS THRU UNTREATED PERFS. NO WATER OR OIL BEING PRODUCED | | | | | | |
| TUBING PRESSURE | CASING PRESSURE | CALC'D RATE OF PRODUCTION PER 24 HOURS | OIL | GAS | WATER | GAS OIL RATIO |
| | | | bbls. | MCF | bbls. | |

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

SHUT IN PENDING COMPLETION OF GATHERING & SALES FACILITIES.

METHOD OF DISPOSAL OF MUD PIT CONTENTS

ROTARY AIR DRILLED - CUTTINGS ONLY IN PIT - OVERFILLED WITH TOP SOIL & RESEDED

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE **ASST. V.P.** OF THE **PENSE BROS. DRLG. CO., INC.** COMPANY, AND THAT I AM AUTHORIZED BY SAID COMPANY TO MAKE THIS REPORT, AND THAT THIS REPORT WAS PREPARED UNDER MY SUPERVISION AND DIRECTION AND THAT THE FACTS STATED THEREIN ARE TRUE, CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE

DATE **11/30/96** SIGNATURE **B. E. Blauvelt PENSE BROS. DRLG. CO., INC.**
By: B. E. BLAUVET, ASST. V.P. 11/30/96



MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI OIL AND GAS COUNCIL
WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

Form OGC-5

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ INJECTION ☐ SAME RESERVOIR ☐ DIFFERENT RESERVOIR ☐ OIL ☒ GAS ☐ DRY

| | | | |
|--|---|--|--|
| OWNER PENSE BROTHERS DRILLING CO., INC. | | ADDRESS Box 551, FREDERICKTOWN, MO 63645 | |
| LEASE NAME MARKHAM | | WELL NUMBER 1-G | |
| LOCATION SE 1/4 SE 1/4 | | SEC. TWP. AND RANGE OR BLOCK AND SURVEY 5-43N-33W | |
| COUNTY CASS | PERMIT NUMBER (OGC-3 OR OGC-3H) 20597 | | |
| DATE SPUNDED 9/27/95 | DATE TOTAL DEPTH REACHED 9/29/95 | DATE COMPLETED READY TO PRODUCE OR INJECT PENDING | ELEVATION (OF, RKR, RT. OR Gr.) FEET 940 (Gr) TOPO |
| TOTAL DEPTH 490' | PLUG BACK TOTAL DEPTH N/A | ELEVATION OF CASING HD FLANGE 941.5 FEET | |
| PRODUCING OR INJECTION INTERVAL(S) FOR THIS COMPLETION PENDING | | ROTARY TOOLS USED (INTERVAL) SURE. TO T.D. DRILLING FLUID USED AIR + WATER | CABLE TOOLS USED (INTERVAL) N/A |
| WAS THIS WELL DIRECTIONALLY DRILLED? NO | WAS DIRECTIONAL SURVEY MADE? NO | WAS COPY OF DIRECTIONAL SURVEY FILED? NO | DATE FILED NO |
| TYPE OF ELECTRICAL OR OTHER LOGS RUN (LIST LOGS FILED WITH THE STATE GEOLOGIST) GAMMA RAY - NEUTRON LOG PENDING - LITHOLOGY ONLY TO DATE | | | DATE FILED 2/13/96 |

CASING RECORD

CASING (REPORT ALL STRINGS SET IN WELL - CONDUCTOR, SURFACE, INTERMEDIATE, PRODUCING, ETC.)

| PURPOSE | SIZE HOLE DRILLED | SIZE CASING SET | WEIGHT (LB. FT) | DEPTH SET | SACKS CEMENT | AMOUNT PULLED |
|------------|-------------------|-----------------|-----------------|-----------|--------------|---------------|
| SURE CSG. | 9 5/8" | 7" | 19.5 | 54' 04" | 7 | NIL |
| PROD. CSG. | 6 1/4" | 4 1/2" | 10.5 | 463' | 66 | NIL |

TUBING RECORD

LINER RECORD

| SIZE IN. | DEPTH SET FEET | PACKER SET AT FEET | SIZE INCH | TOP FEET | BOTTOM FEET | SACKS CEMENT | SCREEN FEET |
|----------|----------------|--------------------|-----------|----------|----------------|--------------|-------------|
| | PENDING | | | | PENDING | | |

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

| NUMBER PER FOOT | SIZE AND TYPE | DEPTH INTERVAL | AMOUNT AND KIND OF MATERIAL USED | DEPTH INTERVAL |
|--|---------------|----------------|--|----------------|
| PENDING - WELL SHUT IN PENDING GAS FACILITIES | | | PENDING - WELL SHUT IN PENDING GAS FACILITIES | |

INITIAL PRODUCTION

| | | | | | | | |
|---------------------------------------|-----------------|--|--------------------------|--------------------------|----------------------------|---------------|--|
| DATE OF FIRST PRODUCTION OR INJECTION | | PRODUCING METHOD (INDICATE IF FLOWING, GAS LIFT, OR PUMPING — IF PUMPING, SHOW SIZE AND TYPE OF PUMP) SHUT IN - EVIDENCED 158 MCD WHILE DRILLING | | | | | |
| DATE OF TEST | HOURS TESTED | CHOKE SIZE | OIL PRODUCED DURING TEST | GAS PRODUCED DURING TEST | WATER PRODUCED DURING TEST | OIL GRAVITY | |
| TUBING PRESSURE | CASING PRESSURE | CALC'D RATE OF PRODUCTION PER 24 HOURS | bbbls | MCF | bbbls | API (CORR) | |
| | | | bbbls | MCF | WATER | GAS OIL RATIO | |

DISPOSITION OF GAS (STATE WHETHER VENTED, USED FOR FUEL OR SOLD)

METHOD OF DISPOSAL OF MUD PIT CONTENTS

AIR ROTARY DRILLED - CUTTINGS ONLY IN PIT - OVERFILLED WITH TOP SOIL & RESEED.

CERTIFICATE: I, THE UNDERSIGNED, STATE THAT I AM THE **ASST. V.P.** OF THE **PENSE BROTHERS DRILLING CO., INC.** COMPANY, AND THAT I AM AUTHORIZED BY SAID COMPANY TO MAKE THIS REPORT, AND THAT THIS REPORT WAS PREPARED UNDER MY SUPERVISION AND DIRECTION AND THAT THE FACTS STATED THEREIN ARE TRUE, CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE

| | | |
|------------------------|---|--------------------------------|
| DATE 2/13/96 | SIGNATURE B. E. Blauvelt By: B. E. BLAUVELT | PENSE BROS DRLG CO, INC |
|------------------------|---|--------------------------------|

EL.: 946(GI) TOPO

SPUDDED: 9-26-95 ^{BeB}

SURF. CSG.: 54' 04"

7 SACKS CEMENT

T.D.: 9-27-95 ^{BeB}

- 0-4 Topsoil, Sandy clay, LIGHT BROWN
- 4-11 CLAY, BLOCKY, REDDISH BROWN, TO TAN TO LIGHT GREY
- 11-44 LIMESTONE, TAN TO BUFF, DENSE.
- 44-49 SHALE, DENSE, GREY TO LIGHT GREY
- 49-66 LIMESTONE, LIGHT BROWN TO TAN
- 66-70 SHALE, SANDY, GREY TO BLUISH GREY
- 70-77 LIMESTONE, DENSE, BUFF TO WHITE.
- 77-80 SHALE, GREY TO LIGHT GREY
- 80-85 LIMESTONE, TAN TO LIGHT BROWN
- 85-218 SHALE, SILTY to SANDY WITH SLIGHT SANDSTONE STRIATIONS, GREY TO BLUISH GREY
- 218-224 SHALE, DARK GREY TO BLACK.
- 224-228 SANDSTONE, FINE GRAINED, ANGULAR, SLIGHTLY SHALY & CALCITIC, VERY SLIGHT FLUORESCENCE, CUT + GAS SHOW.
- 228-260 SHALE, GREY TO LIGHT GREY, CALCAREOUS.
- 260-289 SHALE, GREY TO BLUISH GREY WITH A FEW SHALY SILTSTONE STRIATIONS.
- 289-320 LIMESTONE, FAIR FLUORESCENCE, GAS SHOW, OIL CUT.
- 320-350 SHALE, DENSE, GREY TO DARK GREY
- 350-363 LIMESTONE, BUFF TO TAN, DENSE.
- 363-375 Shale, GREY TO BLUISH GREY, Calcareous
- 375-382 LIMESTONE, LIGHT BROWN TO TAN, FAIR GAS SHOW
- 382-400 Shale, Dense, Grey to Dark Grey
- 400-405 LIMESTONE, SHALY TO SANDY - Very slight gas emission

RECEIVED
FEB 20 1996

Oil & Gas Council

- 405-410 SANDSTONE, WELL ROUNDED TO SUB ROUNDED TO ANGULAR, FAIR FLUORESCENCE, STAINING & GAS SHOW, SLIGHT OIL TO P.T., CALCITIC, TAN TO LIGHT BROWN
- 410-430 LIMESTONE, SOME POROSITY, GAS EMANATION, BUFF TO TAN
- 430-450 LIMESTONE, DENSE, TAN TO LIGHT BROWN, NO SHOWS EXCEPT SLIGHT SHOW WATER NEAR BASE.
- 450-470 SHALE, SILTY, FEW PARTICLES LIMESTONE, CALCAREOUS, GREY TO DARK GREY
- 470-475 CONGLOMERATE WITH SHALE, DARK GREY TO BLACK, COAL STRIATION WITH UNDERCLAY AT BASE.
- 475-490 LIMESTONE, SANDY TO SUCROSTIC, SLIGHT GAS SHOW, BUFF TO TAN.
- T.D. 490'

(GAS MEASURED 158 MCFD WHILE DRILLING)

RECEIVED

FEB 20 1996

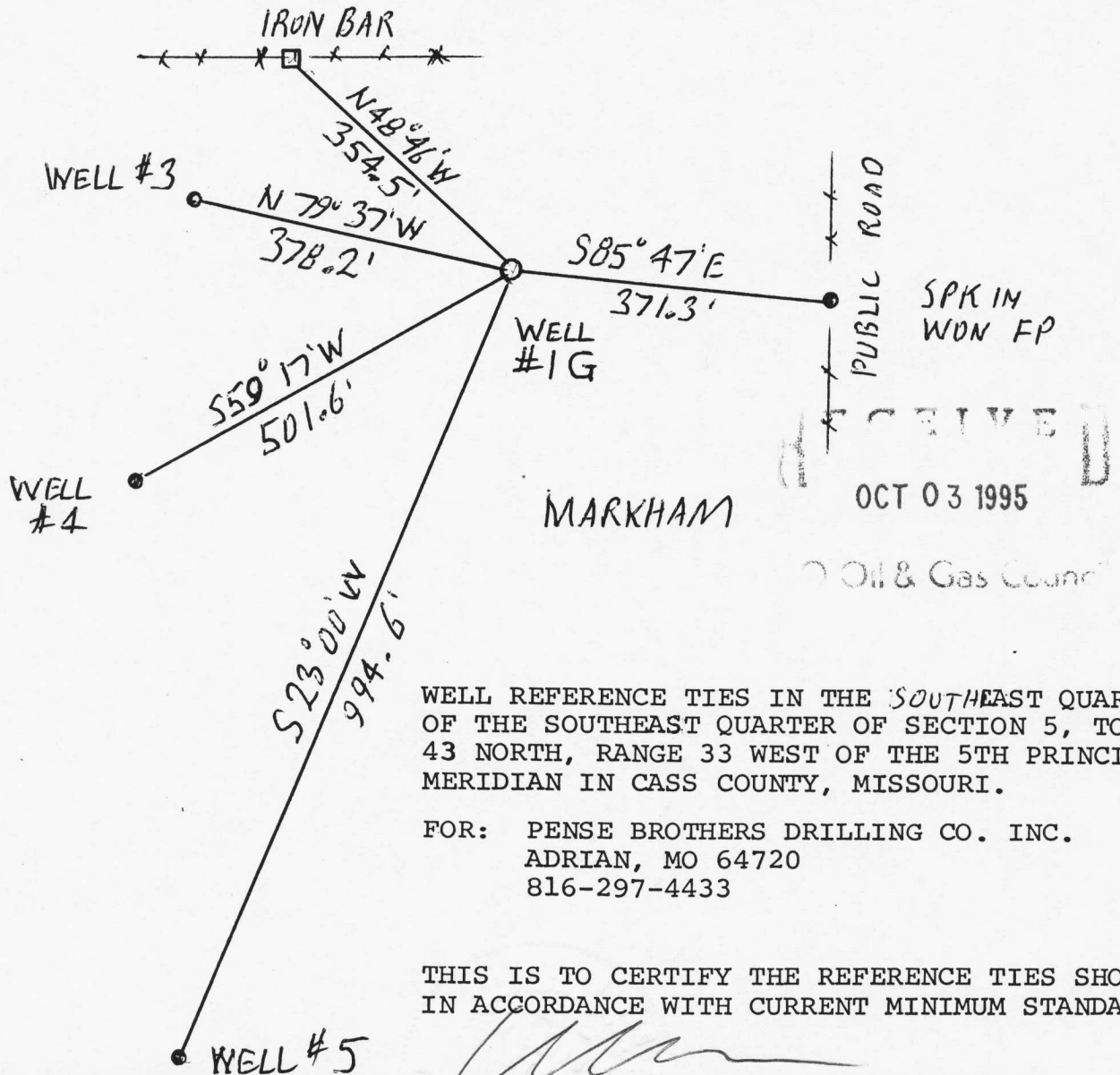
Oil & Gas Council

W. C. LETHCHO
COUNTY ENGINEER & SURVEYOR
Bates County Court House
BUTLER, MO. 64730
Phone 679-4031

MAG BRG 8°E DECL
9-29-95



1"=200'
Sheet 1 of 2



WELL REFERENCE TIES IN THE SOUTHEAST QUARTER
OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP
43 NORTH, RANGE 33 WEST OF THE 5TH PRINCIPAL
MERIDIAN IN CASS COUNTY, MISSOURI.

FOR: PENSE BROTHERS DRILLING CO. INC.
ADRIAN, MO 64720
816-297-4433

THIS IS TO CERTIFY THE REFERENCE TIES SHOWN ARE
IN ACCORDANCE WITH CURRENT MINIMUM STANDARDS.

WILLIAM C. LETHCHO LS-1539

N
↑

$$1'' = 400' \pm$$

CO ROAD

40.00 AC

MCMAHAN

OCT 03 1995

Oil & Gas Council

011
65 AC

2.012
19.65 AC

2:013
19 65 AC

2.014
18.75 AC

MARKHAM

T43 N
R33 W

SECLINE

REDA

632.80

89